



*Venice of America*

CITY OF  
**FORT LAUDERDALE**

**AVIATION ADVISORY BOARD  
FORT LAUDERDALE EXECUTIVE AIRPORT  
ADMINISTRATIVE OFFICE - MULTIPURPOSE ROOM  
6000 NW 21 AVENUE, FORT LAUDERDALE, FL  
THURSDAY, JULY 22, 2010 1:30 P.M.**

Board Members	Attendance	Cumulative Attendance 7/10 through 6/11	
		Present	Absent
Bunney Brenneman, Chair	P	1	0
Bruce Larkin, Vice Chair	P	1	0
Lee Alexander	P	1	0
Gloria Brown	P	1	0
Linda Iversen	A	0	1
Jackie Kaht	P	1	0
Patrick Kerney	P	1	0
Stephen Stella	P	1	0
Pamela Bushnell, Commissioner, City of Tamarac [non-voting]	P	1	0
Jeff Helyer, City of Oakland Park [non-voting]	P	1	0

**Airport/City Staff**

Clara Bennett, Airport Manager  
Mark J. Cervasio, Assistant Airport Manager  
Florence Straugh, Noise Abatement Officer  
Rufus A. James, Airport Operations Supervisor  
Leslie Carhart, Administrative Assistant  
Sharon Dreesen, Administrative Aide  
Victoria Minard, Assistant City Attorney  
Cate McCaffrey, Director of Business Enterprises  
J. Oppерlee, Recording Secretary, Prototype Services

**Communications to the City Commission**

None

**Call to Order**

Chair Brenneman called the meeting to order at 1:31 p.m.

**FORT LAUDERDALE EXECUTIVE AIRPORT**  
6000 N.W. 21ST AVENUE, SUITE 200, FORT LAUDERDALE, FLORIDA 33309  
TELEPHONE (954) 828-4955, FAX (954) 938-4974  
[www.fortlauderdale.gov](http://www.fortlauderdale.gov)



### **1. Approve Minutes of June 2010 Meeting**

**Motion** made by Mr. Larkin, seconded by Ms. Kaht, to approve the minutes of the Board's June 2010 meeting. In a voice vote, motion passed unanimously.

### **2. Election of Chair and Vice Chair**

Doctor Alexander nominated Mr. Larkin for Chair.

Ms. Kaht nominated Ms. Brenneman for Chair.

Ms. Brenneman explained she would not be leaving the Board and Dr. Alexander withdrew his nomination of Mr. Larkin.

By consensus, Ms. Brenneman was elected Chair.

Doctor Alexander nominated Mr. Larkin for Vice Chair, seconded by Ms. Kaht. Mr. Larkin nominated Dr. Alexander, but Dr. Alexander declined.

By consensus, Mr. Larkin was elected Vice Chair.

### **3. Airport Noise Abatement Consultant Request for Proposal (RFP)**

Ms. Straugh said the bid for Airport Noise Abatement Consultant firm had resulted in two responses and the firm with the highest points related to work experience had been selected - Harris Miller Miller & Hanson.

Mr. Cervasio explained the RFP process the City used to solicit proposals for consultants. An evaluation and selection committee of City staff members evaluated, scored and ranked proposals from both firms based on evaluation criteria established in the RFP. Mr. Cervasio said Rick Andrews from the Purchasing Department had assisted FXE staff with the process.

#### **Staff Recommendation**

The staff recommended the acceptance of the SEC recommendations for the Airport Noise Abatement Consultant contract to be awarded to the firm with the highest points received, Harris Miller Miller and Hanson, Inc.

Ms. Straugh said they were seeing a diminishing cost to benefit ratio to the noise studies because the costs for the studies were increasing while the FAA was resistant to approve additional measures. They therefore felt it was wiser to focus on methods that would have a more direct effect, such as outreach programs. Within the next year, they planned to:

- Provide presentations for the Board on a quarterly basis
- Replace the noise monitors
- Analyze helicopter operations and develop recommendations

Ms. Straugh said the consulting firm would help to perform analyses and develop the outreach programs and presentations.

Mr. Ted Baldwin, Senior Vice President of Harris Miller Miller & Hanson, gave a Power Point presentation, a copy of which is attached to these minutes for the public record.

Dr. Alexander asked if the owners of phased-out aircraft were compensated. Mr. Baldwin said they were not, and explained that commercial carriers' stage-2 aircraft had been phased out on January 1, 2000. General aviation had been phased out in 2010, so these operators had had 10 additional years of economic benefit. Mr. Baldwin said there were very few in operation anymore and they were very expensive to operate.

Chair Brenneman said she liked the fact that HMMH had approached this with a complete team, and the fact that the team had experience in Part 161 studies and LAX. Mr. Baldwin stated the subconsultants had worked with HMMH for the Los Angeles world airports, where they were conducting simultaneous Part 161 use restriction studies. Mr. Baldwin said LAX was developing a mandatory, nighttime preferential runway program whereby an airline would be fined if an aircraft did not take off to the west at night. Mr. Baldwin said the subconsultants had also worked with HMMH at Van Nuys airport, which was very similar to FXE. Here, they had just completed a Part 161 study, which resulted in phasing out stage-2 jets. Mr. Baldwin said the budget for that study had been \$4.5 million and he did not recommend FXE undertake such a study.

**Motion** made by Mr. Kerney, seconded by Mr. Stella, to approve staff's recommendation. In a voice vote, motion passed unanimously.

## **UPDATE ITEMS**

### **A. Noise Compatibility Program**

#### **Online Aircraft Noise Reporting Form**

Ms. Straugh informed the Board that based on a suggestion from Ms. Iversen, they now have an Online Aircraft Noise Reporting Form available on the City's website: [http://www.fortlauderdale.gov/FXE/noise\\_report.htm](http://www.fortlauderdale.gov/FXE/noise_report.htm)

Ms. Straugh advised that once the report was submitted, the information was automatically sent via email to Airport staff. The Noise Abatement Office then reviewed each report and followed up as with the hotline calls.

### Nighttime and I-95 Turn

Ms. Straugh reported that in June 2010, there were no jets over 80 decibels at night between 10:00 p.m. and 7:00 a.m. There were eight (8) nighttime straight-out departures that were stage-3 aircraft.

Regarding the I-95 Turn, in June 2010, Ms. Straugh said forty-nine (49) jets flew the Turn at night (between 11:00 p.m. and 7:00 a.m.) and two (2) of those jets were stage-two aircraft.

### Noise Abatement Program Statistics

Noise abatement program statistics for June 2010 were included in the Board's packet.

## **B. Development and Construction**

### Airport Projects In Development

#### Aviation Equipment and Service Facility Project # 11181

Mr. James informed the Board that Gates Butz Institutional Construction had received the Notice to proceed with the construction of the Aviation Equipment and Service Facility in April. They had removed debris from the site and prepared it for construction and were currently burying the underground utilities. They would begin pouring concrete for footers and slabs the following week.

Mr. James stated the building would house Airport equipment, maintenance personnel, and security staff. The facility would be constructed to achieve Leadership in Energy and Environmental Design (LEED) certification. Mr. James anticipated the building would be completed by the end of 2010 or early 2011. He agreed to provide the Board with updates on the progress of this project.

Operations statistics for June were included in the Board's packet. Dr. Alexander noted a slight increase in activity.

Chair Brenneman asked about the Helistop renovations and Mr. James said the renovations had been completed in March and the east stairwell had been replaced in 2007-2008. Mr. James said problems with the elevator had been addressed as well and this was now a world-class facility. Ms. Bennett suggested holding a meeting at the Helistop in the fall.

## **C. Arrearages**

Ms. Bennett reported there were no rent or fuel flow arrearages to report for the month of June 2010.

**D. Communications to the City Commission**

None

**E. FLL Update**

Ms. Straugh said there was nothing new to report.

Other items and announcements

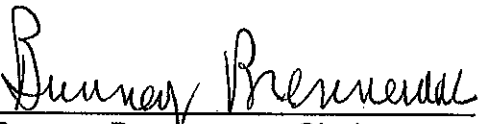
Ms. Straugh stated the FAA was now requiring owners to register aircraft every three years for a nominal fee. This would help to identify aircraft.

Ms. Bennett referred to an email from the City Clerk's office regarding the process for drafting the Board's Communication to the City Commission and advised any Board member who had not received this to contact Ms. Dreesen.

Ms. Bennett drew the Board's attention to the handouts, which were brochures pursuant to an economic impact study conducted by the State of Florida. Ms. Bennett reported FXE generated 5,090 jobs from businesses located at the Airport and total annual economic activity of over \$800 million.

There being no further business before the Board, the meeting adjourned at 2:45 p.m.

➤ Next scheduled meeting date: Thursday – August 26, 2010 – 1:30 PM

  
Bunney Brenheman, Chair

**PLEASE NOTE:**

If any persons decide to appeal any decision made with respect to any matter considered at this public meeting or hearing, he/she will need a record of the proceedings and, for such purpose, he/she may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

# **Qualifications and Experience to Provide Airport Noise Abatement Consultant Services to the City of Fort Lauderdale**



**Presentation to: Airport Advisory Board**

**July 22, 2010**

**Presentation by: Ted Baldwin**

 **HARRIS MILLER MILLER & HANSON INC.**

# Overview

[www.hmmh.com](http://www.hmmh.com)

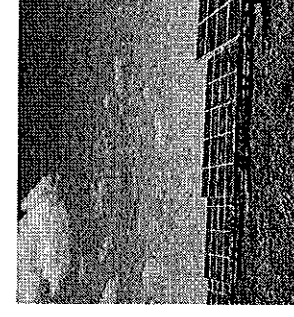
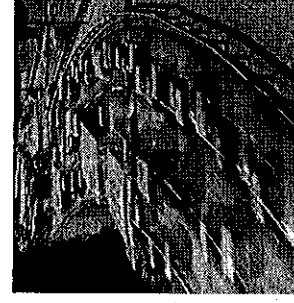
- HMMH overview
- Prior FXE experience
- Project team overview and experience
- Project understanding
- Potential “work program” suggestions
- AAB discussion

# HMMH Corporate Overview

[www.hmmh.com](http://www.hmmh.com)

*HMMH solves complex problems affecting our environment.*

- **Services**
  - Noise and vibration monitoring, modeling, analysis, and control
  - Airport and airspace planning
  - Environmental consulting
  - Climate and energy consulting
  - Programmatic support and systems engineering
  - Training
- **Practice areas**
  - Aviation
  - Rail
  - Highway
  - Industrial
  - Commercial
  - Entertainment
  - Renewable Energy

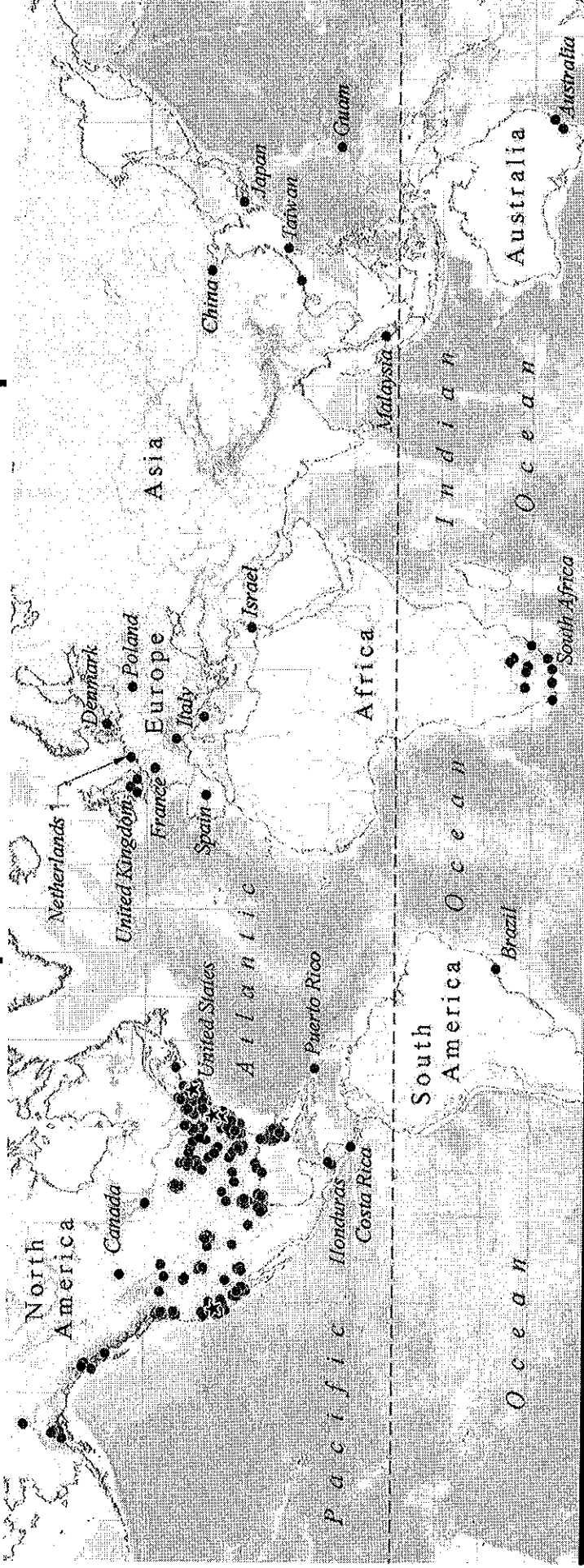




# HMMH Aviation Practice

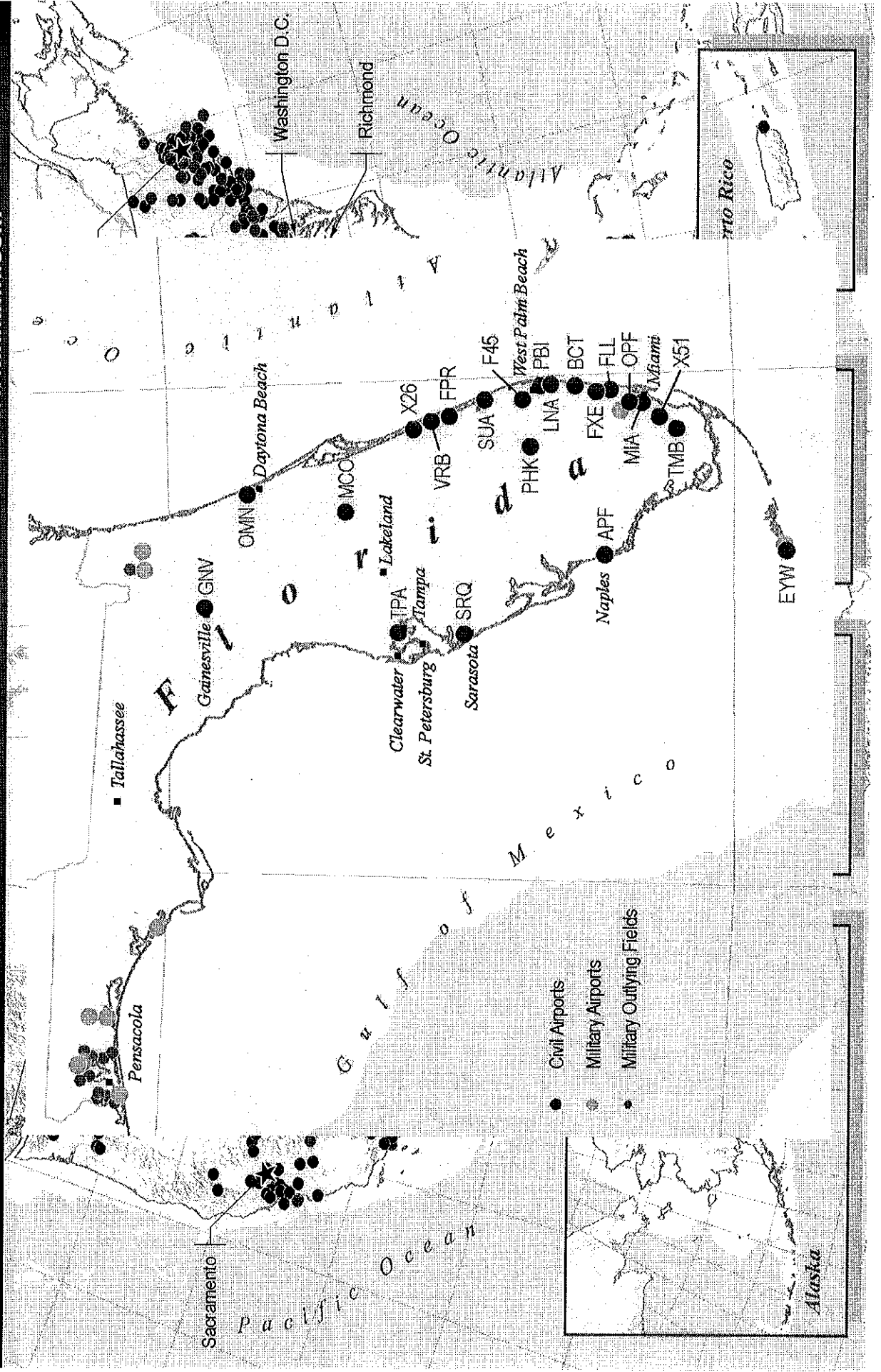
[www.hmmh.com](http://www.hmmh.com)

- **International leader in aviation noise consulting**
  - Comprehensive technical, regulatory, and outreach capabilities
  - Noise program implementation, communication, and support focus
  - Exceptional acoustical, monitoring, and analysis competencies
  - Nationally recognized airspace modeling and assessment abilities
- **Part 150 studies and implementation at over 80 airports**



# HMMH's U.S. experience is particularly strong in Florida, where we have assisted 44 airports since 1981 and FXE since 1984

www.hmmh.com



# Key HMMH Noise-Related Experience at FXE

[www.hmmh.com](http://www.hmmh.com)

- Original 1986 Part 150 Study
- Noise elements of the 1986 Master Plan Update
- Noise elements of the 1996 Part 150 and Master Plan Updates
- Noise elements of the 2002 Part 150 update
- 2005 noise contour update and use restriction analysis
- Original monitoring system design and implementation (1991)
- ANOMS™ upgrade and support and “Y2K” transition (1995-2001)
- Environmental Assessment (EA) for initial establishment of the “I-95 turn” noise abatement departure flight track (1993-4)
- Overall responsibility for EA on extended I95 turn hours (2009-10)
- Comprehensive noise program review and recommendation of improved implementation and reporting mechanisms (2008-9)
- Review and assessment proposed land use developments
- Assistance in preparing and conducting a broad range of noise-program-related presentations
- Other diverse on-call, task-specific noise-program assistance

## Why has HMMH assembled a project team?

[www.hmmh.com](http://www.hmmh.com)

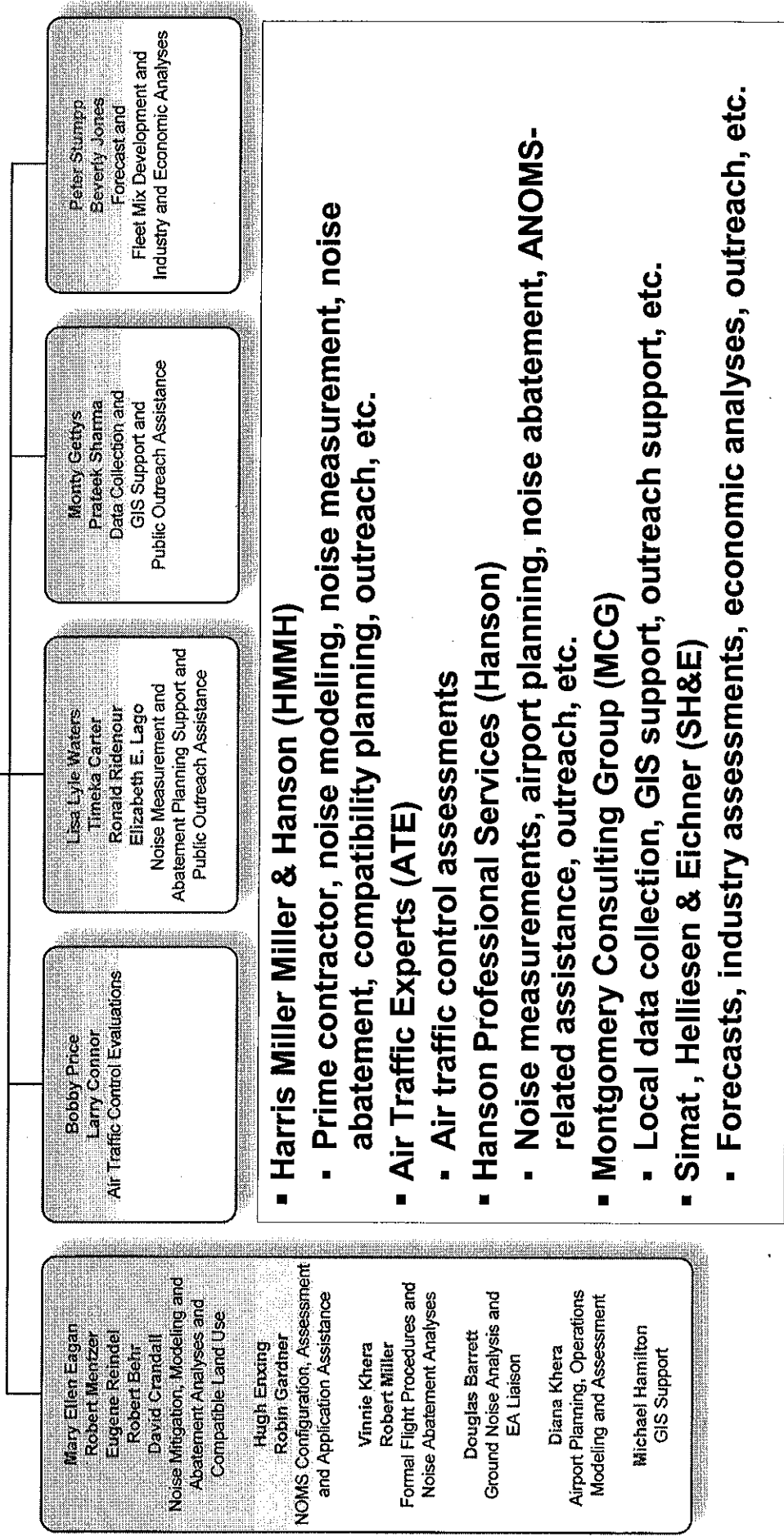
- Provide the *highest possible caliber* of assistance in the *broadest possible spectrum* of noise-related areas
- Provide access to qualified local firms for *cost efficiency and rapid response*
- Provide “*depth on the bench*” when circumstances require significant staff commitments without delay
- Include a highly-qualified *disadvantaged business enterprise* (woman-owned) subconsultant
- Provide *fresh perspectives* on technical areas related to noise issues, balanced by HMMH’s “institutional memory”

# Project Team

www.hmmh.com



**Ted Baldwin**  
Principal in Charge and  
Project Manager



# Subconsultant Noise-Related Experience Highlights

[www.hmmh.com](http://www.hmmh.com)

- **Air Traffic Experts**
  - FXE\* environmental assessment on extended I95 turn hours
  - PBI\*, FLL\*, MIA\*, and ATL air traffic control experience
- **Hanson Professional Services**
  - BCT\*, FLL, FPR\*, PBI\*, SUA\*, and VRB\* Part 150 studies
  - BCT, FLL\*, PBI\*, and SUA\* ANOMS installations and applications
  - BCT, PBI\*, and SUA\* compatible land use program implementation
  - Treasure Coast Regional noise abatement and flight training assessment
- **Montgomery Consulting Group**
  - FLL ANOMS use assistance\* and real estate noise disclosure\*
  - APF Part 150\* and Part 161\* studies
- **Simat, Helliesen & Eichner**
  - APF\*, PBI\*, and VNY\* Part 150 studies
  - BUR, LAX\*, PSM\*, SFO\*, SJC\*, and VNY\* Part 161 studies
  - Diverse BOS\* and BED\* noise assessments

\* With HMMH

# Project Understanding

[www.hmmh.com](http://www.hmmh.com)

***A successful noise program requires continuing attention and technical expertise in a broad range of areas to maintain its effectiveness.***

- Noise modeling, analysis, and reporting, and contour updates
- Permanent and portable noise monitoring studies
- Part 150 Noise Compatibility Planning Study updates
- Airport and airspace layout and operational data collection
- Identification and assessment of noise abatement measures
- Forecasting airport operations and fleet mixes
- Land use data collection, mapping, and analysis
- Land use assessments, to prevent new, non-compatible uses
- Airport / airspace planning, operation, and air traffic control analyses
- Benefit-cost analyses of existing and potential noise-related actions
- Monitoring system design, operation, and performance assessment
- Noise-program-related presentations to potential stakeholders
- Noise analyses related to airport planning and layout projects
- Other noise-program assistance, on an on-call, task-specific basis

# Potential Initial Tasks or “Work Program”

[www.hmmh.com](http://www.hmmh.com)

## ▪ Quarterly AAB presentations

- Topics to address issues of particular interest
- Project team can offer suggestions, based on FxE understanding
- Project team can build on committee experience at other airports
- Potential topics:
  - “Noise 101: Basic acoustical principals and terminology”
  - “Noise 102: Noise-related activity, health, and land use effects”
  - Federal noise regulation and control under Part 36, 91, 150, and 161
  - Addressing noise outside the 65 decibel DNL contour
  - Hot topics in aircraft noise regulation and assessment; e.g., the national phase out of Stage 2 jets
  - The economics of aircraft noise abatement and compatible land use
  - Air traffic control limitations on aircraft noise abatement
  - Noise control at FxE: Where have we come and where are we going?
- *What interests you?*



# Potential Initial Tasks or “Work Program”

[www.hmmh.com](http://www.hmmh.com)

- **Permanent noise monitor review and assessment**
  - Geographic coverage
    - Do the current locations make sense? Are they in the right locations?
  - Hardware condition
    - Are there refurbishment or preventive maintenance needs?
  - Monitor technology challenges and opportunities
    - Are the existing monitors “state-of-the art”?
    - Do they provide all potential features of advantage to FXE?
    - Will they continue to be compatible with and take advantage of data communication advances?
    - Can they be “greener” and use less energy??
    - Are there more cost-effective options?
  - Action plan development
    - Budgeting, phasing, specification, procurement, testing, etc.

# Potential Initial Tasks or “Work Program”

[www.hmmh.com](http://www.hmmh.com)

- **Effects of a Stage 2 phase out**
  - Will the jet noise issue be largely solved?
- **Moving beyond jets: Helicopter noise issues**
  - Compliance with existing routes
  - Assessment of existing routes in the context of current activity
- **Moving beyond jets: Propeller noise issues**
  - How do noise levels compare to jets?
  - What are the fleet mix trends?
  - How should the FxE noise program adopt?
- **Implementation, implementation, implementation**
  - Monitoring, communication, and training to maximize benefits
  - Lessons learned at other airports
  - Improved stakeholder outreach
- ***What ideas do you have?***

**Thank you for your consideration.**

**Questions?**

**[www.hmmh.com](http://www.hmmh.com)**

**Ted Baldwin**

**[tbaldwin@hmmh.com](mailto:tbaldwin@hmmh.com)**